

APPENDIX B**CLEAN VERSION OF THE CLAIMS**

1. A system for producing alternating current electric energy comprising:
at least two turbines that are mechanically separate but electrically connected, said at least two turbines comprising:
 - (a) an industrial gas turbine type for producing electric power and having a first exhaust outlet;
 - (b) an aeroderivative gas turbine type for producing electric power and having a second outlet, the aeroderivative gas turbine type having a shorter start up time than the industrial gas turbine type;
 - (c) at least one electric generator powered by at least one said industrial gas turbine type or said aeroderivative gas turbine type;
 - (d) at least one heat recovery steam generator positioned to receive exhaust gases from the first outlet of the industrial gas turbine type and to receive exhaust gases from the second exhaust outlet of the aeroderivative gas turbine type; and
 - (e) a steam turbine positioned to receive steam produced from said at least one heat recovery steam generator to thereby drive the steam turbine, the steam turbine being driven during start-up operations by said at least one heat recovery steam generator receiving exhaust gases from the aeroderivative gas turbine type, being driven during low demand operations by said at least one heat recovery steam generator receiving exhaust gases from the industrial gas turbine type, and being driven during high demand operations by said at least one heat recovery steam generator receiving exhaust gases from both the industrial gas turbine type and the aeroderivative gas turbine type.
2. The system of claim 1, wherein said at least one electric generator further comprises a first electric generator powered by the industrial gas turbine type, and a second electric generator powered by the aeroderivative gas turbine type.

3. The system of claim 1, wherein said at least one heat recovery steam generator further comprises a first heat recovery steam generator positioned to receive exhaust gases from the first outlet of the industrial gas turbine type and a second heat recovery steam generator positioned to receive exhaust gases from the second exhaust outlet of the aeroderivative gas turbine type, and wherein the steam turbine is positioned to selectively receive steam from the first and the second heat recovery steam generators.

5. The system of claim 1, wherein said aeroderivative gas turbine type is shut down during low demand operations when the steam turbine is being driven by said at least one heat recovery steam generator receiving exhaust gases from the industrial gas turbine type.

6. The system of claim 3, wherein during low demand operations the aeroderivative gas turbine type is left on-line and is used to keep the second heat recovery steam generator in a state of hot stand by for enhanced system start/stop cycling duty capabilities.

7. The system of claim 3, wherein the steam turbine is being driven during start-up operations by the second heat recovery steam generator, is being driven during low demand operations by the first heat recovery steam generator, and is being driven during high demand operations by the first and the second heat recovery steam generators.

8. A system for producing alternating current electric energy comprising:

(a) an industrial gas turbine type for producing electric power and having a first exhaust outlet;

(b) an aeroderivative gas turbine type for producing electric power and having a second outlet, the aeroderivative gas turbine type having a shorter start up time than the industrial gas turbine type;

(c) at least one electric generator powered by at least one said industrial gas turbine type or said aeroderivative gas turbine type;

(d) at least one heat recovery steam generator positioned to receive exhaust gases from the first outlet of the industrial gas turbine type and to receive exhaust gases from the second exhaust outlet of the aeroderivative gas turbine type;

(e) a steam turbine positioned to receive steam produced from said at least one heat recovery steam generator to thereby drive the steam turbine, the steam turbine being driven during start-up operations by said at least one heat recovery steam generator receiving exhaust gases from the aeroderivative gas turbine type, being driven during low demand operations by said at least one heat recovery steam generator receiving exhaust gases from the industrial gas turbine type, and being driven during high demand operations by said at least one heat recovery steam generator receiving exhaust gases from both the industrial gas turbine type and the aeroderivative gas turbine type;

(f) a fuel system for providing fuel to the industrial gas turbine type, aeroderivative gas turbine type and heat recovery steam generators; and

(g) a water system for providing a suitable water supply to the steam turbines and the heat recovery steam generators.

9. A system for producing alternating current electrical energy comprising:

(a) an industrial gas turbine type for producing electric power and having a first exhaust outlet;

(b) an aeroderivative gas turbine type for producing electric power and having a second exhaust outlet, the aeroderivative gas turbine type having a shorter start up time than the industrial gas turbine type;

(c) at least one electric generator powered by at least one said industrial gas turbine type or said aeroderivative gas turbine type;

(d) at least one heat recovery steam generator positioned to receive exhaust gases from the first outlet of the industrial gas turbine type and to receive exhaust gases from the second exhaust outlet of the aeroderivative gas turbine type; and

(e) a steam turbine positioned to receive steam produced from said at least one heat recovery steam generator to thereby drive the steam turbine, the steam turbine being driven during start-up operations by said at least one heat recovery steam generator receiving exhaust gases from the aeroderivative gas turbine type, being driven during low demand operations by said at least one heat recovery steam generator receiving exhaust gases from the industrial gas turbine type, and being driven during high demand operations by said at least one

heat recovery steam generator receiving exhaust gases from both the industrial gas turbine type and the aeroderivative gas turbine type.

10. A system for producing alternating current electric energy comprising:

- (a) an industrial gas turbine type for producing electric power;
- (b) an aeroderivative gas turbine type for producing electric power and having a second exhaust outlet, the aeroderivative gas turbine type having a shorter start up time than the industrial gas turbine type;
- (c) at least one electric generator powered by at least one said industrial gas turbine type or said aeroderivative gas turbine type;
- (d) at least one heat recovery steam generator positioned to receive exhaust gases from the first outlet of the industrial gas turbine type and to receive exhaust gases from the second exhaust outlet of the aeroderivative gas turbine type;
- (e) a steam turbine positioned to receive steam produced from said at least one heat recovery steam generator to thereby drive the steam turbine, the steam turbine being driven during start-up operations by said at least one heat recovery steam generator receiving exhaust gases from the aeroderivative gas turbine type, being driven during low demand operations by said at least one heat recovery steam generator receiving exhaust gases from the industrial gas turbine type, and being driven during high demand operations by said at least one heat recovery steam generator receiving exhaust gases from both the industrial gas turbine type and the aeroderivative gas turbine type;
- (f) a fuel system for providing fuel to the industrial gas turbine type, aeroderivative gas turbine type and heat recovery steam generators;
- (g) a water system for providing a suitable water supply to the steam turbines and the heat recovery steam generators; and
- (h) at least one electric generator powered by said steam turbine.